

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	("5959075" or "9724445" or "5668007" or "6274148").pn.	USPAT; DERWENT	ADJ	ON	2004/11/08 13:36
L2	1	"6300065".pn.	USPAT	ADJ	ON	2004/11/08 13:38
S1	571	albumin WITH fusion	USPAT	ADJ	ON	2004/10/15 17:57
S2	25	S1 SAME (erythropoetin or insulin or hormone or calcitonin or ghrh or chemokine or leptin or (growth factor) or cytokine or somatostatin or interleukin or ghrelin)	USPAT	ADJ	ON	2004/10/15 17:56
S3	9	S1 with (stability or stable)	USPAT	ADJ	ON	2004/10/15 18:24
S4	2	("5876969" or "5766883").pn.	USPAT	ADJ	ON	2004/10/15 18:24

FILE 'HOME' ENTERED AT 13:39:14 ON 08 NOV 2004

=> index biocci

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U. S. DOLLARS

FULL ESTIMATED COST

INDEX 'ADISCTI', ADISINSIGHT, ADISNEWS, AGRICOLA, ANABESTR, ANTE, AQUALINE, AQUASCI, BIOPARTNERS, BIOMERCE, BIOMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPIUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPS, CROPU, DDFB, DDFU, DGENE, DISSESS, ... ENTERED AT 13:39:32 ON 08 NOV 2004

75 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0+ with SET DETAIL OFF.

=> index biocci -uspatfull

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COST IN U. S. DOLLARS

FULL ESTIMATED COST

INDEX 'ADISCTI', ADISINSIGHT, ADISNEWS, AGRICOLA, ANABESTR, ANTE, AQUALINE, AQUASCI, BIOPARTNERS, BIOMERCE, BIOMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPIUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPS, CROPU, DDFB, DDFU, DGENE, DISSESS, ... ENTERED AT 13:39:41 ON 08 NOV 2004

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0+ with SET DETAIL OFF.

=> s albumin (5A) fusion

3 FILE ADISCTI

8 FILE ADISINSIGHT

2 FILE AGRICOLA

1 FILE ANABESTR

3 FILE BIOPARTNERS

3 FILE BIOMERCE

7 FILE BIOMERG

89 FILE BIOSIS

95 FILE BIOTECHADS

95 FILE BIOTECHDS

37 FILE BIOTECHNO

9 FILE CEABA

18 FILE CANCERLIT

183 FILE CAPLUS

2 FILE CEABA-VTB

12 FILE CIN

5 FILE CONFSCI

19 FILE DDFU

8966 FILE DGENE  
4 FILE DISSESS  
19 FILE DRUGU  
43 FILE EMBASE  
30 FILE ESPICBASE  
1 FILE FEDRIP  
1 FILE FSTA  
50 FILE GENBANK  
30 FILE IFPAT  
42 FILES SEARCHED...  
6 FILE IMDRUGNEWS  
8 FILE IMRESEARCH  
3 FILE JICST-BPLUS  
23 FILE LIFESC  
51 FILE MEDLINE  
1 FILE IOSTHIC  
1 FILE NTIS  
25 FILE PASCAL  
2222 FILE PCGEN  
12 FILE PHAR  
2 FILE PHARMAL  
1 FILE PHIC  
12 FILE PHIN  
42 FILE PHINT  
42 FILE PHONT  
63 FILE SCISEARCH  
61 FILE TOXCENTER  
15 FILE USPAT2  
44 FILE WPIDS  
44 FILE WPINDEX  
46 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L1 QUE ALBUMIN (5A) FUSION  
=> s erythropoietin or insulin or hormone or calcitonin or ghrl or chemokine or leptin or (growth (w) factor) or cytokine or somatostatin or interleukin or ghrelin  
54366 FILE ADISCTI  
2804 FILE ADISINSIGHT  
5270 FILE ADISNEWS  
31368 FILE AGRICOLA  
2522 FILE ANABESTR  
255 FILE ANTE  
192 FILE AQUALINE  
8191 FILE AQUASCI  
17069 FILE BIOPARTNERS  
5083 FILE BIOMERCE  
12007 FILE BIOPARTNERS  
973579 FILE BIOSIS  
23981 FILE BIOTECHADS  
23361 FILE BIOTECHDS  
237892 FILE BIOTECHNO  
15 FILES SEARCHED...  
88443 FILE CABA  
236209 FILE CANCERLIT  
665966 FILE CAPLUS  
3964 FILE CEABA-VTB

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502 FILE CEN
8193 FILE CIN
<----User Break---->
=> s 11 (p) (erythropoietin or insulin or hormone or calcitonin or ghrelin or
chemokine or leptin or (growth (w) factor) or cytokine or somatostatin or
interleukin or ghrelin)
1 FILE ADISCTI
4 FILE ADISINSIGHT
0* FILE ADISNEWS
0* FILE AQUAINE
0* FILE BIOCOMMERCE
0* FILE BIOPENG
13 FILE IOSIS
29* FILE BIOTECHABS
29 FILE BIOTECHDS
6* FILE BIOTECHNO
3 FILE CANCERLIT
26 FILE CAPLUS
18 FILES SEARCHED...
0* FILE CEABA-VTB
3* FILE CIN
4 FILE CONFSCI
10 FILE DDEU
4 FILE DRUGU
549 FILE DGENE
10 FILE DIPAT
7 FILE EMBASE
4* FILE EMBASE
1* FILE FEDRIP
0* FILE FORAD
0* FILE FOREGE
0* FILE FROSTI
0* FILE FSTA
6 FILE IFPAT
42 FILES SEARCHED...
1 FILE IMDRUGRENS
5 FILE IMRESEARCH
0* FILE KOMET
1 FILE LIFESCI
0* FILE MEDICONE
6 FILE MEDINE
0* FILE NTIS
0* FILE NUTRACUT
5* FILE PASCAL
55 FILES SEARCHED...
5 FILE PHAR
1* FILE PHARMAL
6 FILE PHIN
13 FILE PROMT
11 FILE SCISEARCH
15 FILE TOXCENTER
1 FILE USPAT2
0* FILE WATER
15 FILE WPIDS

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15 FILE WPINDEX

32 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L1 QUE L1 (P) (ERYTHROPOEITIN OR INSULIN OR HORMONE OR CALCITONIN OR GHRELI OR CHMOKINE OR LEPTIN OR (GROWTH (W) FACTOR) OR CYTOKINE OR SOMATOSTATIN OR INTERLEUKIN OR GHRELIN)

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=> d rank
      549 DGENE
      29* BIOTECHABS
      29* BIOTECHDS
      26 CAPLUS
      26 TOXCENTER
      15 WPIDS
      15 WPINDEX
      13 BIOSIS
      13 PROMT
      11 SCISEARCH
      10 DDEU
      10 DRUGU
      7 EMBASE
      6 IFPAT
      6 MEDLINE
      6 PHIN
      6 BIOTECHNO
      5 TMSRESEARCH
      5 PHAR
      5 PASCAL
      4 ADISINSIGHT
      4 EMBASE
      4 CONFSCI
      4 ESBIOBASE
      3 CANCERLIT
      3 CIN
      1 ADISCTI
      1 DISSEABS
      1 IMDRUGRENS
      1 LIFESCI
      1 USPAT2
      1* FEDRIP
      1* PHARMAL

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=> file f2-f16
COST IN U.S. DOLLARS
FULL ESTIMATED COST

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FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

SINCE FILE  
ENTRY  
5.13

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TOTAL  
SESSION  
5.91

FILE 'BIOTECHDS' ENTERED AT 13:45:00 ON 08 NOV 2004
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FILE 'MEDLINE' ENTERED AT 13:45:00 ON 08 NOV 2004

FILE 'PHIN' ENTERED AT 13:45:00 ON 08 NOV 2004

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> s 12  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L1 (P)'  
13 157 L2  
9 FILES SEARCHED: ...

=> dup rem 13  
PROCESSING COMPLETED FOR L3  
14 93 DUP REM 13 (64 DUPLICATES REMOVED)

=> s 14 and (stability or stable)  
15 17 L4 AND (STABILITY OR STABLE)

=> d 15 bib ab 1-17

15 ANSWER 1 OF 17 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
AN 2004-06841 BIOTECHDS  
TI Novel fusion polypeptide having epidermal \*\*\*growth\*\*\*  
and human serum albumin linked to C-terminal or N-terminal of epidermal  
\*\*\*growth\*\*\* \*\*\*factor\*\*\* in which \*\*\*stability\*\*\* of  
\*\*\*growth\*\*\* \*\*\*factor\*\*\* \*\*\*factor\*\*\* is enhanced by human serum albumin;  
vector-mediated fusion gene transfer and expression in host cell for  
recombinant protein production and cosmetic manufacture

AU  
PA  
PI  
WO 2004005340 15 Jan 2004  
WO 2003-KR1309 2 Jul 2003  
PRAI  
KR 2002-38165 3 Jul 2002; KR 2002-38165 3 Jul 2002  
DT  
LA  
English  
OS  
WPI: 2004-099372 [10]  
AB  
DERVENT ABSTRACT:  
NOVELTY - A fusion polypeptide (I) comprising epidermal \*\*\*growth\*\*\*  
\*\*\*factor\*\*\* (EGF) and human serum albumin linked to the C-terminal or  
N-terminal of the EGF, and in which the \*\*\*stability\*\*\* of the EGF is  
enhanced by virtue of the human serum albumin, is new.  
DETAILED DESCRIPTION: INDEPENDENT CLAIMS are also included for the  
following: (1) a nucleotide sequence (II) encoding a fusion polypeptide  
comprising EGF and human serum albumin linked to the C-terminal or  
N-terminal of the EGF; (2) an expression vector (III) comprising (II) and  
a promoter operably linked to the nucleotide sequence; (3) a transformant  
comprising (III); (4) preparing (I); (5) a cosmetic composition for  
skin care, which comprises a fusion polypeptide comprising EGF and human  
serum albumin linked to the C-terminal or N-terminal of the EGF as an  
active ingredient and a carrier; and (6) a pharmaceutical composition  
(P1), comprising a fusion polypeptide comprising EGF and human serum  
albumin linked to the C-terminal or N-terminal of the EGF as an active  
ingredient and a carrier.

BIOTECHNOLOGY - Preparation: Preparing (I) involves culturing (IV)  
under conditions for expression and recovering (I) (claimed). Preferred  
Polypeptide: In (I), the human serum albumin is linked to C-terminal of  
EGF. Preferred Nucleotide: In (II), a nucleotide sequence coding for the  
human serum albumin is linked to the 3' end of the EGF. The nucleotide  
sequence coding for EGF comprises a sequence (S1) of 159 nucleotides,  
given in the specifications. Preferred Vector: In (III), a nucleotide  
sequence of EGF comprises (S1). Preferred Transformant: (IV) is a  
bacterium, fungus, plant cell or animal cell.  
USE - (I) is useful for preparing cosmetic composition for skin  
care.  
ADMINISTRATION - (I) is administered through oral, parenteral or  
topical route. Dosage ranges from 0.001-100 mg/kg.  
ADVANTAGE - (I) has higher \*\*\*stability\*\*\* and purity.  
EXAMPLE - To amplify the epidermal \*\*\*growth\*\*\* \*\*\*factor\*\*\*  
(EGF) gene, PCR amplification was performed using the EGF gene as  
template and a pair of primers designed to introduce BamHI and HindIII  
recognition sites into 5'- and 3'- termini of the gene, respectively. The  
nucleotide sequences of primers are: reverse primer 5'-  
CCAAACTTAGCGAGTCCACCT-3', and forward primer 5'-  
CGGGATCCACAGCATGAGATTCGAC-3'. The PCR product was digested with  
BamHI and HindIII and extracted. The EGF gene was extracted and purified and  
ligated to PUC18 and digested with BamHI and HindIII using T4 DNA ligase.  
The resulting vector was transformed into CacI2-treated Escherichia coli  
DH5alpha and then the transformed cells with ampicillin resistance were  
selected by culturing in Luria Broth (LB) medium containing ampicillin  
(100 mg/ml). The cloned plasmids (EGF PUC18) were isolated from the  
transformed cells. PCR amplification was performed using cDNA of human  
serum albumin as template and a pair of primers designed to introduce  
EcoRI and BamHI recognition sites into 5'- and 3'- termini of the gene,  
respectively. The nucleotide sequences of primers are: reverse primer  
5'-CGGGATCCACAGCATGAGATTCGAC-3' and forward primer

5'-GGGATTCATGAGTGGGGTAACTTATTTC-3'. The PCR product was digested with EcoRI and BamHI and extracted. The human serum gene extracted and purified was ligated to EGF/pUC18 digested with EcoRI and BamHI using T4 DNA ligase. The resulting plasmid was introduced into CaCl2-treated E. coli DH5alpha and then the transformed cells with ampicillin resistance were selected by culturing in LB medium containing ampicillin (100 mg/ml). The cloned plasmids (Albumin-EGF/pUC18) were isolated from the transformed cells. Following the digestion of Albumin-EGF/pUC18 plasmid with EcoRI and HindIII, the resultant was subjected to electrophoresis on agarose gel and the \*\*\*albumin\*\*\* -EGF \*\*\*fusion\*\*\* gene was extracted and purified. (57 pages)

ANSWER 2 OF 17 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
2004-06830 BIOTECHDS  
Preparing a fusion polypeptide comprising epidermal \*\*\*growth\*\*\* \*\*\*factor\*\*\* and human serum albumin in a plant comprises transforming plant cells with a polynucleotide sequence that encodes the fusion polypeptide;

vector-mediated fusion gene transfer and expression in transgenic plant for recombinant protein production and disease therapy

LEE S; YOO J; PARK S  
NEXGEN BIOTECHNOLOGIES INC  
WO 200405520 15 Jan 2004  
WO 2003-081310 2 Jul 2003  
KR 2002-38165 3 Jul 2002  
PRAI  
Patent  
English  
WPI: 2004-051372 [09]

ABSTRACT:  
NOVELTY - Preparing a fusion polypeptide comprising epidermal \*\*\*growth\*\*\* \*\*\*factor\*\*\* (EGF) and human serum albumin in a plant comprising transforming plant cells with a polynucleotide sequence comprising a sequence that encodes the fusion polypeptide, a promoter, and a 3'-non-translated region, is new.

DETAILED DESCRIPTION - Preparing a fusion polypeptide comprising epidermal \*\*\*growth\*\*\* \*\*\*factor\*\*\* (EGF) and human serum albumin in a plant comprising transforming plant cells with a polynucleotide sequence comprising a sequence that encodes the fusion polypeptide, a promoter, and a 3'-non-translated region, comprising: (a) transforming plant cells with a polynucleotide sequence comprising a nucleotide sequence encoding the fusion polypeptide comprising EGF and human serum albumin linked to the C-terminal or N-terminal of the EGF, where the \*\*\*stability\*\*\* of the EGF is enhanced by virtue of the human serum albumin; a promoter that functions in plant cells to cause the production of an RNA molecule operably linked to the nucleotide sequence; and a 3'-non-translated region that functions in plant cells to cause the polyadenylation of the RNA molecule; (b) selecting transformed plant cells; and (c) recovering the fusion polypeptide from the regenerated plant.

WIDER DISCLOSURE - The following are also disclosed as new: (1) a nucleotide sequence encoding the fusion polypeptide; (2) an expression vector comprising the nucleotide sequence; (3) a cosmetic composition for skin care; and (4) a pharmaceutical composition.

BIOTECHNOLOGY - Preferred Plant: In preparing a fusion polypeptide,

the plant is Nicotiana tabacum, Cucumis sativa, Citrullus

vulgaris, or Brassica campestris. Preferred Nucleic Acid: The nucleotide

sequence of the EGF comprises nucleotide 1-159 of a sequence of 165 amino acids fully defined in the specification. Preferred \*\*\*fusion\*\*\* protein: The human serum \*\*\*albumin\*\*\* is linked to the C-terminal of the EGF. Preferred Method: The method alternatively comprises: (a) inoculating an explant material from the plant with Agrobacterium tumefaciens harboring a vector that is capable of inserting the nucleotide sequence cited above; (b) regenerating the inoculated material on a regeneration medium to obtain regenerated shoots; (c) culturing the regenerated shoots on a rooting medium to obtain a transformed plant, where the transformed plant is capable of expressing the nucleotide sequence; and (d) recovering the fusion polypeptide from the transformed plant.

ACTIVITY - Gastrointestinal-Gen: Antidiarrheal; Antiparkinsonian; Dermatological; Vulnerary. No biological data given.

MECHANISM OF ACTION - Protein Therapy. No biological data given.  
USE - The method is useful for preparing a fusion polypeptide comprising epidermal \*\*\*growth\*\*\* \*\*\*factor\*\*\* \*\*\*albumin\*\*\* in plant (claimed). The \*\*\*fusion\*\*\* polypeptide is useful for preparing a cosmetic composition for skin care, and a pharmaceutical composition for treating, e.g. gastric ulcers, neurodegenerative disorders such as Parkinson's disease and wound healing.

ADMINISTRATION - Dosage is 0.001-100 mg/kg. Administration is oral, parenteral or topical.

EXAMPLE - Escherichia coli BL21 (DE3) transformed with Albumin-EGF pEN228alpha was cultured to OD650 0.5 in 5 liter fermenter and the expression of the fused gene was then induced by addition of 0.5 mM IPTG. Following additional culture for 5-6 hours, the cells were collected by centrifugation. The collected cells were completely suspended in 40 ml of buffer, disrupted by ultrasonification, centrifuged and the resulting supernatant was then collected. The supernatant was electroporated pm 8 % polyacrylamide gel to verify the expression of the fusion protein. The supernatant was applied to Ni-agarose column activated with a binding buffer and passed at a rate of 1-3 ml/min. Then, using the binding buffer, the column was washed and each of 20, 40, 60, 100, 300 and 500 mM imidazole solutions was applied to the column in stepwise manner, finally eluting the fusion protein. (57 pages)

ANSWER 3 OF 17 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN  
2003-08652 BIOTECHDS  
Novel human \*\*\*chemokine\*\*\* betal protein comprising deletion in amino acids from amino and/or carboxy terminus, and is a \*\*\*fusion\*\*\* protein further comprising human serum \*\*\*albumin\*\*\*, is useful for treating multiple sclerosis, asthma; vector-mediated recombinant protein gene transfer and expression in host cell for use in gene therapy

BELL A; RUBEN S M  
HUMAN GENOME SCI INC  
WO 2002057038 5 Dec 2002  
PRAI US 2002-16525 24 May 2002  
Patent  
LA English  
WPI: 2003-140456 [13]  
DEVENT ABSTRACT:  
NOVELTY - A human \*\*\*chemokine\*\*\* betal (Ckbl) protein (1) comprising a deletion in amino acid residues from amino terminus and/or carboxy

terminus of a polypeptide having a 92 residue amino acid sequence (S1), given in the specification, is new.

WIDER DISCLOSURE - (1) full-length Ckbl polypeptides, and its analogs or derivatives; (2) isolated nucleic acid molecules encoding (1), or the full-length Ckbl polypeptides, and their antisense analogs; (3) antibodies against (1); (4) polynucleotides encoding Ckbl polypeptide which is a fusion polypeptide further comprising the human serum albumin (HSA), expression vectors and host cells comprising the polynucleotides; (5) Ckbl polypeptides or Ckbl fusion proteins coupled to a detectable label; therapeutic or cytotoxic moiety; or a radioactive material; (6) antibodies that inhibit or abolish the binding of a CCR5 ligand, polynucleotides encoding the antibodies, methods of producing the antibodies, use of the antibodies in diagnostics or therapeutics, and use of the polynucleotides encoding the antibodies in gene therapy; (7) pharmaceutical preparations comprising the Ckbl fusion proteins; (8) transgenic organisms modified to contain the above mentioned nucleic acid molecules; (9) polypeptides containing at least 80, preferably 99 % identity to a Ckbl protein or Ckbl fusion protein, and nucleic acids encoding these variants, fragments, or the proteins; (10) polypeptides encoded by polynucleotides which hybridize to the complement of a nucleic acid molecule encoding the above mentioned amino acid sequences; (11) diagnostic kits comprising the antibodies; (12) primary, secondary, and immortalized host cells vertebrate origin, particularly mammalian origin, that have been engineered to delete or replace endogenous genetic material (e.g. the coding sequence corresponding to a Ckbl protein may be replaced with a Ckbl-HSA coding region; (13) chemically modified derivatives of the Ckbl-HSA fusion proteins; (14) diagnostic assays involving the polynucleotides encoding the Ckbl proteins, or the anti-Ckbl antibodies; (15) gene therapy techniques involving the polynucleotides encoding Ckbl protein; and (16) binding moieties that bind to Ckbl protein identified by screening assays involving (1)-HSA fusion proteins.

BIOTECHNOLOGY - Preparation: (1) is prepared by standard recombinant techniques. Preferred Protein: (1) is chosen from a polypeptide comprising residues 5-n, 6-n, 7-n, 8-n or 9-n, where n is any one of residues 56-74 of (S1). (1) further comprises first a heterologous protein such as human serum albumin (HSA). The HSA is at the N- or C-terminus of Ckbl. (1) further comprises a second heterologous protein at the N-terminus of Ckbl. The second heterologous protein is 4 amino acids in length and is selective for CCR5.

ACTIVITY - Anti-HIV; Neuroprotective; Antithyroid; Antiarthritic; Antirheumatic; Immunosuppressive; Nootropic; Antinflammatory; Antiallergic; Osteopathic; Nephropathic; Tuberculostatic; Virucide; Antilatherosclerotic; Antimicrobial.

MECHANISM OF ACTION - HIV replication inhibitor; CCR5 agonist or antagonist; Upregulates or downregulates CCR5 expression. The ability of Ckbl (S28-N93):HSA to human serum albumin (HSA) was determined as follows. Ckbl (S28-N93):HSA was solubilized in phosphate buffered saline (PBS) to a concentration of 4.4 mg/ml. Human immunodeficiency virus (HIV) strain Ba-L was obtained and grown exclusively in monocytes/macrophages. Peripheral blood monocytes were isolated from HIV-1 negative donors and then cultured for 6 days, allowing maturation of the cells to a macrophage-like phenotype. At day 6, the cultures were washed 3 times to remove any non-adherent cells and serially diluted test compounds were added. The compounds and cells were incubated at 37 degrees C for 60 minutes, and then a pre-titered amount of HIV-1 Ba-L virus added. The amount of virus to be used in the assays was determined by endpoint

titration with and without azidothymidine (AZT). A volume of virus (titer) was selected which provides an inhibitory concentration of 50 & between 1 and 10 cm for AZT and greater than 500 pg/ml D24 by enzyme linked immunosorbent assay (ELISA) in virus control microtiter wells. Cultures were washed a final time by media removal 24 hours post-infection, fresh compound added and the culture continued for an additional 6 days. HIV p24 content was determined by ELISA to assess virus replication. Cytotoxicity by 3-(4,5-dimethylthiazol-2-yl)-5-(3,5-diphenyltetrazolium bromide (MTT) dye reduction was performed on day 6 of the infection. AZT, HIV-1 reverse nucleoside transcriptase inhibitor was assayed in parallel as a positive control. Results showed that Ckbl (S28-N93):HSA inhibited HIV-1 replication with an IC50 of 1.6 mg/ml and no apparent cellular toxicity at 100 mg/ml. The positive control compound AZT provided an IC50 of 2.0 nm.

USE - (1) is useful for preventing infection, preferably viral (human immunodeficiency virus (HIV)) infection, in a cell, by contacting the cell with (1). (1) is also useful for treating a disease, such as HIV infection or immune disorders, hematopoietic disorders, autoimmune disorder, multiple sclerosis, Grave's disease, arthritis, rheumatoid arthritis, transplant rejection, neurodegenerative disorders, Alzheimer's disease, inflammatory disease, asthma, allergic disorders, inflammatory bowel disease, osteoarthritis, colitis, inflammatory kidney diseases, glomerulonephritis, infectious disease, tuberculosis, hepatitis, infections, herpes viral infection, viral infection, proliferative disorders or atherosclerosis, in an individual (claimed). (1) inhibits or abolishes the ability of HIV to bind to, enter/into/fuse with (infect), and/or replicate in CCR5 expressing cells. (1) also acts a CCR5 agonists or antagonists, stimulate chemotaxis of CCR5-expressing cells, inhibit CCR5 ligand binding to a CCR5 molecule, or upregulate or downregulate CCR5 expression. (1) is useful as an immunological probe for the differential identification of the tissues or cell-types. (1)-HSA fusion proteins are useful for diagnosing, treating and preventing various disorders in mammals, preferably in humans. (1)-HSA fusion proteins are also useful as molecular weight markers on sodium dodecyl sulfate polyacrylamide gel electrophoresis techniques, for raising antibodies, and to test the biological activities of the Ckbl protein. (1)-HSA fusion proteins are useful for screening for molecules that bind to the Ckbl protein portion of the fusion protein. The fusion proteins are also useful in drug screening techniques.

ADMINISTRATION - (1)-HSA fusion proteins are

\*\*\*albunin\*\*\* (HSA)

\*\*\*fusion\*\*\* protein is administered orally, parenterally, rectally, intradermally, intravaginally, intraperitoneally, etc. Dosages of the fusion proteins administered parenterally range from 1 microg-9-10 mg/kg/day, most preferably for humans ranges from 0.01-1 mg/kg/day.

\*\*\*ADVANTAGE\*\*\* - The Ckbl fusion proteins have increased activity. The proteins exhibit selective binding to CCR5. EXAMPLE - Vectors pSCNHSAs (ATCC Deposit No. PTA-3279) and pSCCHSA (ATCC deposit No. PTA-3276) which are derivatives of pPc0005 (ATCC Deposit No. PTA-3278) were used as cloning vectors into which polynucleotides encoding a \*\*\*chemokine\*\*\* betal (Ckbl) protein was inserted adjacent to and in translation frame with polynucleotides encoding human serum albumin (HSA). pSCCHSA was used for generating Ckbl protein-HSA fusions, while pSCNHSAs was used to generate HSA-Ckbl protein fusions. Generation of pSCCHSA was carried out as follows. The nucleic acid sequence encoding chimeric HSA signal peptide in Ppc0005 was altered to include the XbaI and ClaI restriction sites. The XbaI and ClaI sites

inherent to RPPC00005 (located 3' of the ADH1 terminator sequence) were eliminated. Then the XbaI and C1aI restriction sites were engineered into the nucleic acid sequence that encodes the signal peptide of HSA (a chimera of the HSA leader and a Kex2 site) from mating factor alpha, NAF) in RPPC0006 using two rounds of polymerase chain reaction (PCR). The resulting PCR product was then purified and digested with AflII and XbaI and ligated into the same sites in RPPC0006 creating pSCHSA. The presence of the XbaI site creates a single amino acid change in the end of the signal sequence from LDKR to LEKR. The D to E change will not be present in the final \*\*\*albumin\*\*\* protein.

\*\*+fusion\*\* protein with a 5' Sali site (which is compatible with the XbaI site) and a 3' C1aI site was ligated into the XbaI and C1aI sites of pSCHSA. Ligation of Sali to XbaI restores the original amino acid sequence of the signal peptide sequence. The pSCHSA was used as cloning vectors into which polynucleotides encoding a Ckbl protein or fragment or variant was inserted adjacent to polynucleotides encoding mature HSA. pSCHSA was used for generating Ckbl-HSA fusions. DNA encoding Ckbl protein was PCR amplified. Once the PCR product was obtained it was cut with Bsu36I and one of (AciI, FseI, or PmeI) and ligated into pSCHSA. The presence of the XbaI site in the HSA chimeric leader sequence created a single amino acid change in the end of the chimeric signal sequence, i.e. the HSA-Kex2 signal sequence, from LDKR to LEKR. An expression vector compatible with Yeast expression was transformed into yeast Saccharomyces cerevisiae individual transformants were grown for 3 days at 30 degrees C in 10 mL YEPD (1 % w/v yeast extract, 2 % w/v, peptone, 2 % w/v, dextrose), and cells were collected at stationary phase after 60 hours of growth. supernatants were collected by clarifying cells. The protein expressed was isolated and then purified. (423 pages)

ANSWER 4 OF 17 BIOTECHS COPYRIGHT 2004 THE THOMSON CORP. on STN 1986-11571 BIOTECHS  
Monoclonal antibodies against Gal3-imide recognize the endogenous plant growth regulator, GA4, and related gibberellins;  
construction of a hybridoma secreting monoclonal antibody; application to gibberellin analysis by affinity chromatography etc.  
Eberle J; Yamaguchi I; Nakagawa R; Takahashi N; \*Weiler E W  
Pflanzenphysiologie, Fachbereich 5, Universität Osnabrück, Postfach 4469, D 4500 Osnabrück, Germany.  
FEBS Lett.; (1986) 202, 1, 27-31  
CODEN: FEBLAL  
DT Journal  
LA English  
AB A new approach which allows the production of gibberellin (GA)-specific monoclonal antibodies of high affinity which are useful for GA immunoassay, immunofluorimetry chromatography and the generation of anti-idiotypic antibodies is reported. Female 6-8 wk old BALB/c mice were injected with bovine serum albumin-conjugated GA13-19,20-indole-beta-alanine 7'-methyl ester. Similar immunizations were performed using GA1- and GA3-(C-7')-bovine serum albumin and GA3-3-succinoyl-bovine serum \*\*\*+albumin\*\*\*. 4 Days prior to \*\*\*+fusion\*\*\*, a final booster immunization was given. Fusions were performed with spleen cells of immunized mice and cells of the myeloma line X63.Agg.653. Cell growth was seen 14 days after fusion, and the presence of GA-specific antibodies was monitored using RIA. Positive cell populations were purified by recloning by limiting dilution. 2 \*\*\*stable\*\*\* hybridomas secreting

antibodies of the IgG1 subclass were obtained which exhibited high affinities for GA4 methyl ester. This allowed quantitation by HPLC-RIA of ng or sub-ng amounts of GA2, A3, A4, A7 and A9 as the methyl esters, in biological fluids. (10 ref)

L5 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:259854 CAPLUS

DN 140-1282433  
TI Fusion proteins of human serum albumin with prolonged serum half-lives for delivery of therapeutic proteins stimulating cell proliferation  
YU, Zailin; FU, Yan  
PA U.S. Pat. Appl. Publ., 65 pp.  
CODEN: USXXCO

DT Patent  
LA English

FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI US 2004063635 A1 US 2003-609346  
CN 1467224 A 20040114 CN 2002-142881  
PAN! US 2002-329498 P 20020701  
AB \*\*\*+fusion\*\*\* Proteins of human serum \*\*\*+albumin\*\*\* (HSA) and Proteins stimulating cell proliferation such as interleukins or lymphokines are produced by expression of the corresponding gene in a yeast host. The serum \*\*\*+albumin\*\*\* \*\*\*+fusion\*\*\* Protein is more \*\*\*stable\*\*\* in serum than the therapeutic protein is alone. The protein therefore also has a therapeutic index higher than that of the therapeutic protein alone and has lower toxicity and longer-lasting therapeutic effects in vivo. In addition, manufacturing processes are provided for efficient, cost-effective production of these recombinant proteins in yeast. Manuf. of biol. active fusion proteins of \*\*\*+interleukin\*\*\* 3, erythropoietin, \*\*\*+interleukin\*\*\* 11, G-CSF and GM-CSF is demonstrated.

FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI 2003:300832 CAPLUS  
DN 136-132508  
TI Albumin fusion proteins with therapeutic proteins for improved shelf-life  
IN Rosen, Craig A.; Haseltine, William A.  
PA Human Genome Sciences, Inc., USA  
SO PCT Int. Appl., 457 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI WO 2003030821 A2 20030317 WO 2002-US31794  
WO 2003030821 A3 20031211  
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LA, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
LA English  
AB A new approach which allows the generation of generation of anti-idiotypic antibodies is reported. Female 6-8 wk old BALB/c mice were injected with bovine serum albumin-conjugated GA13-19,20-indole-beta-alanine 7'-methyl ester. Similar immunizations were performed using GA1- and GA3-(C-7')-bovine serum albumin and GA3-3-succinoyl-bovine serum \*\*\*+albumin\*\*\*. 4 Days prior to \*\*\*+fusion\*\*\*, a final booster immunization was given. Fusions were performed with spleen cells of immunized mice and cells of the myeloma line X63.Agg.653. Cell growth was seen 14 days after fusion, and the presence of GA-specific antibodies was monitored using RIA. Positive cell populations were purified by recloning by limiting dilution. 2 \*\*\*stable\*\*\* hybridomas secreting

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, DE, DK, E, ES, PI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BU, CF, CG, CI, CR, GA, GN, GQ, ML, MR, NE, SN, TD, TG

PRA1 US 2001-327281P P 20011005 \*\*\*fusion\*\*\* proteins of \*\*\*albumin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in soln., in vitro and/or in vivo, by genetically or chem. fusing or conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein solns. with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mol. encoding the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids, vectors, and/or host cells. Thus, Plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (PPC0005) and mammalian cells (pCA:HSA). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase SUC2 gene, or the stanniocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37-degree., whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week.

Although the potency of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. Comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

These slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. Comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

ANSWER 7 OF 17 CAPUS COPYRIGHT 2004 ACS on STN  
AN 2001781112 CAPUS  
DN 1351348552  
TI Albumin fusion proteins with therapeutic proteins for improved shelf-life  
IN Rosen, Craig A.; Haezelte, William A.  
PA Human Genome Sciences, Inc., USA  
SO PCR Int. App., 394 pp.  
COPN: PIXX02

DT Patent  
PAN.CNT 7  
LA English  
PARENT NO. KIND DATE APPLICATION NO. DATE  
----- ----- ----- -----  
P1 WO 2001073480 A1 20011025 WO 2001-US11931 20010412  
WO 2001073480 C2 20030109  
W: AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GR, HR, HV, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, MA, MD, MG, MK, MN, MW, MX, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PI, SE, TR, BF, BJ, CR, CG, CI, CM, GA, GN, GW, MH, MR, NE, SN, TD, TG  
EP 1276856 A1 20030122 EP 2001-937179 20010412  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
US 200312247 A1 20030703 US 2001-833041 20010412  
US 200317267 A1 20030911 US 2001-833117 20010412  
JP 2003530852 T2 20031021 JP 2001-577463 20010412  
US 200319043 A1 20031123 US 2001-632501 20010412  
US 2003219875 A1 20031127 US 2001-833118 20010412  
PRA1 US 2004010134 A1 20040115 US 2001-833245 20010412  
US 2000-199384P P 20000112  
US 2000-266931P P 20000125  
WO 2001-US11931P W 20010412

AB The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albumin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in soln., in vitro and/or in vivo, by genetically or chem. fusing or conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein solns. with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mol. encoding the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids, vectors, and/or host cells. Thus, Plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (PPC0005) and mammalian cells (pCA:HSA). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase SUC2 gene, or the stanniocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37-degree., whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week.

Although the potency of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. Comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

\*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

ANSWER 8 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:781079 CAPLUS  
DN 1351348651  
TI Albumin fusion proteins with therapeutic proteins for improved shelf-life  
IN Rosen, Craig A.; Hassalline, William A.  
PA Human Genome Sciences, Inc., USA  
SO PCT Int. Appl., 606 pp.  
CODEN: PIXDD2

DT Patent  
LA English  
FAN.CNT 7  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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P1 WO 2001079444 A2 20010425 WO 2001-US12013 20010412  
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WO 2001079444 A3 200200523 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DR, DZ, EE, ES, FI, GB, GD, GE, GH, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TI, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, CM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CX, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, AU 2001074809 A5 20010420 AU 2001-74809 20010412  
EP 1279544 A2 20030129 EP 2001-941457 20010412  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MR, CY, AL, TR  
US 20031125247 A1 20030703 US 2001-833041 20010412  
US 200311267 A1 20030911 US 2001-833117 20010412  
JP 2003530467 T2 20031021 JP 2001-577428 20010412  
US 20031199043 A1 20031023 US 2001-833501 20010412  
US 20032119875 A1 20031127 US 2001-833118 20010412  
US 2004010134 A1 20040115 US 2001-833245 20010412  
PRAI US 2000-2293589 P P 20000412  
US 2000-199384P P P 20001221  
US 2000-256931P P W 20010412  
AU 2001-US12013 W 20010412

AB The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albamin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic proteins activity for extended periods of time in soln., in vitro and/or in vivo, by genetically or chem. fusing conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein solns. with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mol. encoding the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids, vectors, and/or host cells. Thus, plasmid vectors are

constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (pPPC005) and mammalian cells (pC4-1:USA). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase, SUC2 gene, or the stannicacidin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37 degreee, whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week.

Although the potency of the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. comprising \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

ANSWER 9 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN  
LS 2001:781078 CAPLUS  
AN 1351348850  
DN 1351348850  
TI Albumin fusion proteins with therapeutic proteins for improved shelf-life  
IN Rosen, Craig A.; Hassalline, William A.  
PA Human Genome Sciences, Inc., USA  
SO PCT Int. Appl., 374 pp.  
CODEN: PIXDD2  
DT Patent  
LA English  
FAN.CNT 7  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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P1 WO 2001079443 A2 20011025 WO 2001-US11924 20010412  
WO 2001079443 A3 200200221 W: AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DR, DZ, EE, ES, FI, GB, GD, GE, GH, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TI, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, CM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CX, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, AU 2001074809 A5 20011030 EP 2001-53063 20010412  
EP 1279544 A2 20030129 EP 2001-941457 20010412  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MR, CY, AL, TR  
AU 2001050063 A5 20011030 EP 1274719 A2 20030115 EP 2001-932546 20010412  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MR, CY, AL, TR  
US 2003112547 A1 20030703 US 2001-833041 20010412  
US 200311267 A1 20030911 US 2001-833117 20010412  
JP 2003530846 T2 20031023 US 2001-833043 20010412  
US 20031198043 A1 20031127 US 2001-833118 20010412  
US 2004010134 A1 20040115 US 2001-833245 20010412  
PRAI US 2000-2293589 P 20000412  
US 2000-199384P P 20001221  
US 2000-256931P P W 20010412  
AU 2001-US12013 W 20010412

AB The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albamin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic proteins activity for extended periods of time in soln., in vitro and/or in vivo, by genetically or chem. fusing conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein solns. with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mol. encoding the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albamin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these plasmid vectors. Thus, plasmid vectors are

WO 2001-US11924

W 20010412

AB The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albumin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in solution, in vitro and/or in vivo, by genetically or chem- fusing or conjugating the therapeutic protein to albumin or variant of albumin. Use of \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein soins, with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mols. encoding the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids, vectors, and/or host cells. Thus, plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (PPC0005) and mammalian cells (pCD:HSAs). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase SUC2 gene, or the stannicocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37 degrees, whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week.

Although the potency of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compositions comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

1.5 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:761077 CAPLUS

DN 135:348849

TI Albumin fusion proteins with therapeutic proteins for improved shelf-life  
IN Rosen, Craig A.; Haseltine, William A.

PA Human Genome Sciences, Inc., USA

SO PCT Int. Appl., 413 pp.

CODEN: PIXDD2

DI Patent

LA English

FAN.QNT 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001079442	A2	20011025	WO 2001-US11924	20010412
WO 2001079442	A3	20020606		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, D2, EE, ES, FI, GB, GD, GE, GH, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, NX, MZ, NO, NZ, PL, PR, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, T2, UA, UG, US, UZ,				

1.5 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:76305 CAPLUS

DN 135:335111

VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, N2, SD, SL, SZ, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, CN, GW, ML, NR, NF, SN, TD, TG AU 2001064563 A5 20011030 AU 2001-64363 20010412 EP 1276849 A2 20030322 EP 2001-933594 20010412 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, US 2003125247 A1 20030703 US 2001-833041 20010412 US 200317267 A1 20030911 US 2001-833117 20010412 US 200319043 A1 20031223 US 2001-8332501 20010412 JP 2003533590 T2 2003128 JP 2001-577426 20010412 US 2003219875 A1 20031217 US 2001-833118 20010412 US 2004010134 A1 20040115 P 20000412 US 2000-29358P P 20000412 US 2000-19384P P 20000412 US 2000-256931P P 20000412 WO 2001-US11924 20010412 AB The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albumin\*\*\* with various therapeutic proteins, and in particular various antibodies. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in *soin*, *in vitro* and/or *in vivo*, by genetically or chem. fusing or conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein soins. With large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mols. encoding the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids vectors, and methods of making the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids vectors, and/or host cells. Thus, plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (PPC0005) and mammalian cells (pCD:HSAs). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase SUC2 gene, or the stannicocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37 degree, whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week. Although the potency of the \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. \*\*\*stability\*\*\* results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compositions comprising \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins treating, preventing, or ameliorating diseases, disorders or conditions using \*\*\*albumin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

TI      Albumin fusion proteins with therapeutic proteins for improved shelf-life  
 IN      Rosen, Craig A.; Haseltine, William A.  
 PA      Human Genome Sciences, Inc., USA  
 SO      PCT Int. Appl., 2102 pp.  
 DT      Patent  
 LA      English  
 FAN, CNT 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077137	A1	20011018	WO 2001-US11988	20010412
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, C2, DE, ES, FL, GS, GD, GE, GH, GM, HR, RU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SL, TJ, TM, TR, T2, UA, UG, US, UZ, VN, YO, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TU, TM, RW: GH, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, US, ZW, AT, BE, CH, CX, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI, PT, SE, TR, BS, BJ, CR, CG, CI, CM, GA, GR, GW, ML, MR, NE, SN, TD, TG				
EP 1276756	A1	20030122	EP 2001-944114	20010412
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, NE, CY, AL, TR				
US 2003125247	A1	20030703	US 2001-833041	20010412
US 2003171267	A1	20030911	US 2001-833117	20010412
US 2003199043	A1	20031023	US 2001-833501	20010412
US 2003219875	A1	20031127	US 2001-833118	20010412
US 2004010134	A1	20040115	US 2001-833245	20010412
JP 2004506407	T2	20040304	JP 2001-575607	20010412
PRAI US 2000-229358P	P	20000412		
US 2000-193848P	P	20000425		
US 2000-236931P	P	20001221		
WO 2001-US11988	W	20010412		

AB      The present invention encompasses \*\*\*fusion\*\*\* proteins of \*\*\*albunin\*\*\* with various therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in vitro and/or in vivo, by genetically or chem. fusing or conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins may also reduce the need to formulate the protein seuls, with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mols. encoding the \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins of the invention are also encompassed by the invention, as are vectors contg. these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins of the invention and using these nucleic acids, vectors, and/or host cells. Thus, plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins in yeast (PPTC0005) and mammalian cells (PPTC0005). Yeast-derived signal sequences from *Saccharomyces cerevisiae* invertase SUC2 gene, or the stanniocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth \*\*\*hormone\*\*\* with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation

in tissue culture media at 37.degree., whereas recombinant human growth \*\*\*hormone\*\*\* used as control lost its biol. activity in the first week.

Although the potency of the \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins is slightly lower than the unfused counterparts in rapid bioassays, their longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. comprising \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins and methods of treating, preventing, or ameliorating diseases disorders or conditions using \*\*\*albunin\*\*\* \*\*\*fusion\*\*\* proteins of the invention.

RE CNT 3      THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 17      WPIIDS      COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN      2003-05149 [07]      WPIIDS  
 DNC      C2002-015688  
 TI      \*\*\*Stable\*\*\*  
 Plastic transformation and expression vector competent for stably transforming a plastid genome for expression of heterologous genes, e.g. insulin.

DC      B04 C06 D16  
 IN      DANIELI, H  
 PA      (AUBU) UNIV AUBURN; (UYFL-N) UNIV CENT FLORIDA; (DANI-I) DANIELI H  
 CYC      96  
 P1      WO 2001072059 A2 20011004 (200207)\* EN 305  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG 2W  
 W: AE AG AL AM AU AZ BA BB CR GR RY TZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN JP KE KG KP KR KZ LC LK LR LU LV NA MD MG MN MW NO NZ PL PT RO RU SD SE SG SI SL T1 TM TR TZ UG US UZ VN YU ZA  
 AU 2001076813 A 20011008 (200208)  
 EP 1276846 A2 20030115 (200306) EN  
 P1      WO 2001072959 A2 2001-0228; AU 2001076813 A RU 2001-6813  
 RO SE SI TR  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 US 2003208864 A1 WO 2001-US6288 20010228; AU 2001076813 A RU 2001-6813  
 ADT      WO 2001072959 A2 WO 2001-0228; AU 2001076813 A RU 2001-6813  
 20010228; EP 1276846 A2 EP 2001-054572 20010228; WO 2001-US6288 20010228;  
 FDT      US 2003208864 A1 WO 2001-US6288 20010228; AU 2001076813 A RU 2001-0228; EP 1276846 A2 Based on WO  
 2001072959  
 PRAI US 2001-15987 20010223; US 2001-185987P  
 US 2001-253424P 20010123; US 2001-26397P  
 US 2001-263668P 20010123; US 2001-807742  
 AB      NOVELTY - A \*\*\*stable\*\*\* Plastid transformation and expression vector competent for stably transforming a plastid genome, is new. expression vector competent for stably transforming a plastid genome, is new, which comprises an expression cassette comprising as operably linked components in the 5' to 3' direction of translation:  
 DETAILED DESCRIPTION - A \*\*\*stable\*\*\* plastid transformation and expression vector comprising a plastid genome, is new.

these components in the 5' to 3' direction of translation:  
 (a) a promoter operative in the plastid,  
 (b) a selectable marker sequence,  
 (c) a heterologous DNA sequence coding for a biopolymer-proinsulin fusion gene, a cholera toxin B-subunit-proinsulin gene, a plasmid DNA fragment comprising a 5'UTR sequence positioned upstream of the promoter to enhance translation of proinsulin protein, a Cry2Ab2 operon

which comprises two open reading frames (ORFs) where the ORF immediately upstream of Cry2A2 codes for a putative chaperonin, a cholera toxin B-subunit-plastid modified proinsulin (P<sub>t</sub>P<sub>i</sub>) fusion wherein its nucleotide sequence is modified such that the codons are optimized for plastid expression, cholera toxin B-subunit-mini-proinsulin (Htris) fusion where its codons are optimized for plastid expression, a synthetic protein-base polymer (PBP) fused to a biologically active molecule, an interferon gene, a \*\*\*insulin\*\*\* -like \*\*\*growth\*\*\* \*\*\*factor\*\*\* gene, a human serum \*\*\*albumin\*\*\* (HSA) gene, or a biopolymer \*\*\*fusion\*\*\* gene.

(d) a transcription termination region functional in the plastid, and flanking, each side of the expression cassette, flanking DNA sequences which are homologous to a DNA sequence inclusive of a spacer sequence of the target plastid genome, whereby \*\*\*stable\*\*\* integration of the heterologous coding sequence into the plastid genome of the target plant is facilitated throughout homologous recombination of the flanking sequence with the homologous sequence in the target plastid genome.

INDEPENDENT CLAIMS are also included for the following:

- (1) a stably transformed plant which comprises plastid stably transformed with the above vector, or the progeny or seeds of it;
- (2) a process for stably transforming a higher target plant species which comprises introducing into the plastid genome of the plant the above vector; and
- (3) a transformed and edible tobacco or alfalfa plant of (1);
- (4) a process for recovering a biopolymer by a one step extraction and purification by using the reversible property of the biopolymer; and
- (5) a process for recovery of a synthetic protein-base polymer (PBP) fused with a biologically active molecule by one step extraction and purification by using the reversible property of the biopolymer of (4).

ACTIVITY - None given.

USE - The vector can be used to stably transform a plant. It can be used to produce edible tobacco, or alfalfa plants (all claimed).

ADVANTAGE - By producing the heterologous genes in an edible plant, the proteins can be orally delivered to patients that require them, e.g., \*\*\*insulin\*\*\* to diabetics, without the need for injections.

Dwg. 0/10

HGS GAINS PRINCIPIA'S ALBUMIN FUSION PLATFORM FOR \$120 M IN STOCK.  
 TI WILLETT, MATTHEW  
 AU BICWORLD TODAY, (12 Sep 2000) Vol. 11, No. 176.  
 SO American Health Consultants, Inc.  
 PB Newsletter  
 DT English  
 LA 584  
 WC \*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*  
 AB Making therapeutics just got easier for protein and peptide leader Human Genome Sciences Inc., thanks to the fusion protein technology the Rockville, Md.-based company gets through its acquisition of Principia Pharmaceuticals.

THIS IS THE FULL TEXT: COPYRIGHT 2000 American Health Consultants, Inc.

Subscription: \$1350.00 per year. Published daily (5 times a week).

ANSWER 15 OF 17 PROMT COPYRIGHT 2004 Gale Group on STN

ANSWER 16 OF 17 PROMT COPYRIGHT 2004 Gale Group on STN

TI PRINCIPIA SECURES FUNDING FOR DELIVERY OF PROTEINS. (Brief Article) (Company Profile)

AU Welch, Mary  
 SO BICWORLD Today, (23 Aug 1999) Vol. 10, No. 162.  
 PB American Health Consultants, Inc.  
 DT English

WC \*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Principia Pharmaceutical Corp. is a new company developping a technology platform that uses recombinant albumin fusion proteins to provide sustained activity and improved \*\*\*stability\*\*\*.

THIS IS THE FULL TEXT: COPYRIGHT 1999 American Health Consultants, Inc.

Subscription: \$1350.00 per year. Published daily (5 times a week).

ANSWER 16 OF 17 IFIPAT COPYRIGHT 2004 IFI on STN

TI 10426843 IFIPAT/IFI/DBA/IFI/CDB  
 ALBUMIN FUSION PROTEINS  
 Prior: Christopher P., Rosemont, PA, US  
 Inf: Rosen; Craig A., Laytonsville, MD, US  
 Seidegi; Homayoun, Doylestown, PA, US  
 Turner; Andrew J., Eagleville, PA, US

IN Prior Christopher P.; Rosen Craig A.; Seidegi Homayoun; Turner Andrew J  
 PAP Unassigned or Assigned To Individual (68000)  
 PA AG HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850  
 PI US 2003171267 Al 20030911  
 AI US 2001-033117  
 PRAI 2000-0425 (Provisional)  
 US 2000-199384P  
 US 2000-029358P (Provisional)  
 US 2000-256311P  
 FI US 2003171267 20030911 (Provisional)

DT Utility; Patent Application - First Publication  
 FS CHEMICAL  
 FS APPLICATION  
 PARN This application claims the benefit of priority under 35 U.S.C. section 119(e) based on the following U.S. provisional applications: 60/229,358

ANSWER 13 OF 17 PROMT COPYRIGHT 2004 Gale Group on STN

TI Human Genome Sciences Presentations at the American Association for Cancer Research 93rd Annual Meeting; Antitumor Activity of TRAIL Receptor-1 Agonistic Human Monoclonal Antibody.

SO PR Newswire, (10 Apr 2002) PP. DCM00910042002.  
 PB PR Newswire Association, Inc.  
 DT Newsletter  
 LA English  
 WC 2335  
 \*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*  
 AB Additional Preclinical Studies of Repertinim for the Treatment of Cancer  
 THIS IS THE FULL TEXT: COPYRIGHT 2002 PR Newswire Association, Inc.

ANSWER 14 OF 17 PROMT COPYRIGHT 2004 Gale Group on STN

ANS 2000:795696 PROMT



CROPU, DDFB, DDFU, DGENE, DISSABS, ... ENTERED AT 13:39:32 ON 08 NOV 2004  
INDEX 'ADISCTI', ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
AQUASCII, BIOBUSINESS, BIOMCOMMERCE, BIOENG, BIOSIS, BIOTECHASS, BIOTECHDS,  
BIOTECHNO, CASA, CANCERLIT, CASLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROFB,  
CROPU, DDFB, DDFU, DGENE, DISSABS, ... ENTERED AT 13:39:41 ON 08 NOV 2004  
SEA ALBUMIN (5A) FUSION

3 FILE ADISCTI  
8 FILE ADISINSIGHT  
2 FILE AGRICOLA  
1 FILE ANABSTR  
3 FILE BIOBUSINESS  
3 FILE BIOMCOMMERCE  
7 FILE BIOTECNO  
89 FILE BIOSIS  
95 FILE BIOTICBABS  
95 FILE BIOTICBDS  
37 FILE BIOTICBDS  
9 FILE CABA  
18 FILE CANCERLIT  
183 FILE CAPTUS  
2 FILE CEABA-VTB  
12 FILE CIN  
5 FILE CONFSCI  
19 FILE DDFU  
8966 FILE DGENE  
4 FILE DISSABS  
19 FILE DRUGU  
43 FILE EMBASE  
30 FILE EBBIOBASE  
1 FILE EDRIP  
1 FILE FSTA  
50 FILE GENBANK  
30 FILE ICLPAT  
6 FILE INDRUGNEWS  
8 FILE INSRSEARCH  
3 FILE JICST-EPIUS  
23 FILE LIFESCI  
51 FILE MEDLINE  
1 FILE NIOSHTIC  
1 FILE NTIS  
25 FILE PASCAL  
2222 FILE PCTGEN  
12 FILE PEAR  
2 FILE PHARMAL  
1 FILE PHIC  
12 FILE PHIN  
42 FILE PHOMT  
63 FILE SCIRESEARCH  
61 FILE TOXCENTER  
15 FILE USPAT2  
44 FILE WPIIDS  
44 FILE WINDEX  
QUE ALBUMIN (5A) FUSION  
SEA ERYTHROPOEITIN OR INSULIN OR HORMONE OR CALCITONIN OR GHRH

54366 FILE ADISCTI  
2804 FILE ADISINSIGHT  
5270 FILE ADISNEWS  
31368 FILE AGRICOLA  
2522 FILE ANABSTR  
255 FILE ANTE  
192 FILE AQUALINE  
8191 FILE AQUASCII  
17069 FILE BIOBUSINESS  
9083 FILE BIOMCOMMERCE  
12007 FILE BIOTECNO  
973579 FILE BIOTESTS  
29381 FILE BIOTECHABS  
29381 FILE BIOTECHDS  
27892 FILE BIOTECNHO  
88543 FILE CABA  
236209 FILE CANCERLIT  
655966 FILE CAPLUS  
3964 FILE CEABA-VTB  
502 FILE CEN  
8193 FILE CIN  
22945 FILE CONFSCI  
SEA LI (P) (ERYTHROPOEITIN OR INSULIN OR HORMONE OR CALCITONIN  
1 FILE ADISCTI  
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0\* FILE ADISNEWS  
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0\* FILE BIOMCOMMERCE  
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26 FILE CEABA-VTB  
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4\* FILE EBBIOBASE  
1\* FILE EDRIP  
0 FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
0\* FILE FSTA  
6 FILE IFIPAT  
1 FILE INDRUGNEWS  
5 FILE INSRSEARCH  
0\* FILE KOSMET  
1 FILE LIFESCI

0\* FILE MEDICONF  
6 FILE MEDLINE  
0\* FILE NTIS  
0\* FILE NUTRACEUT  
5+ FILE PASCAL  
5 FILE PHAR  
1\* FILE PHARVAML  
6 FILE PHIN  
13 FILE PROMT  
11 FILE SCISEARCH  
15 FILE TOXCENTER  
1 FILE USPAT2  
0\* FILE WATER  
15 FILE WPIDS  
15 FILE WPINDEX  
QUE LI (P) (ERYTHROPOEITIN OR INSULIN OR HORMONE OR CALCITONIN  
-----

FILE 'BIOECHOS, CAPLUS, TOXCENTER, WPIDS, BIOSIS, PROMT, SCISEARCH,  
DRUG, IIPAT, MEDLINE, PHIN' ENTERED AT 13:45:00 ON 08 NOV 2004  
L3 157 S L2  
L4 93 DUP REM L3 (64 DUPLICATES REMOVED)  
L5 17 S 14 AND (STABILITY OR STABLE)

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:46:27 ON 08 NOV 2004

SINCE FILE ENTRY	TOTAL SESSION
96.94	102.85

SINCE FILE ENTRY	TOTAL SESSION
-4.90	-4.90